

Amendment under 37 C.F.R. §1.111
Teiji KOHARA et al.

U.S. Patent Application Serial No. 09/622,694
Attorney Docket No. 001046

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11. (Amended) The reflector for a lighting equipment as set forth in claim 32, characterized in that said reflecting layer is provided by vapor deposition.

12. (Amended) The reflector for a lighting equipment as set forth in claim 9, characterized in that said substrate is comprised of a resin composition containing a thermoplastic resin containing an alicyclic structure and at least one compounding agent selected from the group consisting of a partial ether compound of a polyhydric alcohol, a soft polymer, a filler, and a compound incompatible with the thermoplastic resin having an alicyclic structure.

13. (Amended) The reflector for a lighting equipment as set forth in claim 9, characterized in that said substrate is comprised of a resin composition comprised of a thermoplastic resin containing an alicyclic structure to which is blended a soft polymer having a glass transition temperature of not more than 30°C.

14. (Amended) The reflector for a lighting equipment as set forth in claim 9, characterized in that the substrate is comprised of a resin composition comprised of a thermoplastic resin containing an alicyclic structure to which is blended a crystalline polymer.

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15. (Amended) The reflector for a lighting equipment as set forth in claim 9, characterized in that the substrate is comprised of at least one type of thermoplastic resin containing an alicyclic structure selected from the group consisting of a ring-opening polymer of a norbornene-based monomer, a hydrogenate of a ring-opening polymer of a norbornene-based monomer, and an addition polymer including addition type repeating units of an at least three-ring norbornene-based monomer.

16. (Amended) The reflector for a lighting equipment as set forth in any of claims 9 to 15, characterized in that the amount of repeating units containing polar groups in the thermoplastic resin containing an alicyclic structure is not more than 50 wt %.

17. (Amended) The reflector for a lighting equipment as set forth in any of claims 9 to 15, characterized in that the thermoplastic resin containing an alicyclic structure has a melt flow rate, measured by JIS-K6719 at a temperature of 280°C and a load of 2.16 kgf, of 4 to 100 g/10min.

18. (Amended) The reflector for a lighting equipment as set forth in any of claims 9 to 14, characterized in that the thermoplastic resin containing an alicyclic structure has repeating units comprised of ring structures other than norbornene rings.

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19. (Amended) A lens for a lighting equipment comprised of a resin composition comprising:

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a thermoplastic resin containing an alicyclic structure selected from the group consisting of a ring-opening polymer of a norbornene-based monomer, a ring-opening polymer hydrogenate of a norbornene-based monomer, an addition polymer of a norbornene-based monomer, an addition polymer of a norbornene-based monomer and vinyl alicyclic hydrocarbon polymer, and

at least one compounding agent selected from the group consisting of a partial ether compound of a polyhydric alcohol, a partial ester compound of a polyhydric alcohol, a soft polymer, a filler, and a compound incompatible with the thermoplastic resin having an alicyclic structure.

20. (Amended) A lamp cover for a lighting equipment provided in front of a light source and allowing passage of light of the light source, said lamp cover for a lighting equipment comprised of a thermoplastic resin containing an alicyclic structure selected from the group consisting of a ring-opening polymer of a norbornene-based monomer, a ring-opening polymer hydrogenate of a norbornene-based, an addition polymer of a norbornene-based monomer, an addition polymer of a norbornene-based monomer and vinyl compound, and a vinyl alicyclic hydrocarbon polymer.

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21. (Amended) A lamp cap for a lighting equipment covering part of all of the light source, said lamp cap comprised of a thermoplastic resin containing an alicyclic structure selected from the group consisting of a ring-opening polymer of a norbornene-based monomer, a ring-opening polymer hydrogenate of a norbornene-based monomer, an addition polymer of a norbornene-based monomer, an addition polymer of a norbornene-based monomer and vinyl compound, and a vinyl alicyclic hydrocarbon polymer.

22. (Amended) A light guide for a lighting equipment provided in a light chamber of the lighting equipment and having a light incident face to which is introduced at least one type of light selected from the group of light from a light source and light from a light source reflected by a reflector and an emission face emitting the incident light introduced from the incident surface to the outside, said light guide for resin containing an alicyclic structure having a glass resin containing an alicyclic structure having a glass transition temperature of at least 90°C selected from the group consisting of a ring-opening polymer of a norbornene-based monomer, a ring-opening polymer hydrogenate of a norbornene-based monomer, an addition polymer of a norbornene-based monomer, an addition polymer of a norbornene-based monomer and vinyl compound, and a vinyl alicyclic hydrocarbon polymer.

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Please add new claims 23-32 as follows:

A3 23. (New) The lens for a lighting equipment as set forth in claim 19, in which the thermoplastic resin containing an alicyclic structure is selected from the group consisting of a ring-opening polymer of a norbornene-based monomer, a ring-opening polymer hydrogenate of a norbornene-based monomer, an addition polymer of a norbornene-based monomer, and an addition polymer of a norbornene-based monomer and vinyl compound.

24. (New) The lamp cover for a lighting equipment as set forth in claim 20, in which the thermoplastic resin containing an alicyclic structure is selected from the group consisting of a ring-opening polymer of a norbornene-based monomer, a ring-opening polymer hydrogenate of a norbornene-based monomer, an addition polymer of a norbornene-based monomer, and an addition polymer of a norbornene-based monomer and vinyl compound.

25. (New) The lamp cap for a lighting equipment as set forth in claim 21, in which the thermoplastic resin containing an alicyclic structure is selected from the group consisting of a ring-opening polymer of a norbornene-based monomer, a ring-opening polymer hydrogenate of a norbornene-based monomer, an addition hydrogenate of a norbornene-based monomer, an addition polymer of a norbornene-based monomer, and an addition polymer of a norbornene-based monomer and vinyl compound.

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26. (New) The light guide for a lighting equipment as set forth in claim 22, in which the thermoplastic resin containing an alicyclic structure is selected from the group consisting of a ring-opening polymer of a norbornene-based monomer, a ring-opening polymer of a norbornene-based monomer, a ring-opening polymer hydrogenate of a norbornene-based monomer, an addition polymer of a norbornene-based monomer, and an addition polymer of a norbornene-based monomer and vinyl compound.

27. (New) A lighting equipment comprising:

- a reflector having a substrate on which is formed a reflecting layer with a reflectance of at least 70%,
- a lens comprised of a thermoplastic resin containing an alicyclic structure for condensing light of a light source reflected by the reflector,
- a lamp cover allowing a passage of light of the light source reflected by the reflector,
- a lamp cap covering part or all of the light source, and
- a light guide having an incident face to which is introduced at least one type of light selected from light from the light source and light from the light source reflected by the reflector and an emission face emitting the incident light introduced from the incident face to the outside.

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28. (New) A lighting equipment comprising:

a reflector having a substrate on which is formed a reflecting layer with a reflectance of at least 70%,

a lens for condensing light of a light source reflected by the reflector,

a lamp cover comprised of a thermoplastic resin containing an alicyclic structure allowing a passage of light of the light source reflected by the reflector,

a lamp cap covering part or all of the light source, and

a light guide having an incident face to which is introduced at least one type of light selected from light from the light source and light from the light source reflected by the reflector and an emission face emitting the incident light introduced from the incident face to the outside.

29. (New) A lighting equipment comprising:

a reflector having a substrate on which is formed a reflecting layer with a reflectance of at least 70%,

a lens for condensing light of a light source reflected by the reflector,

a lamp cover allowing a passage of light of the light source reflected by the reflector,

a lamp cap comprised of a thermoplastic resin containing an alicyclic structure covering part or all of the light source, and

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a light guide having an incident face to which is introduced at least one type of light selected from light from the light source and light from the light source reflected by the reflector and an emission face emitting the incident light introduced from the incident face to the outside.

30. (New) A lighting equipment comprising:

a reflector having a substrate on which is formed a reflecting layer with a reflectance of at least 70%,

a lens for condensing light of a light source reflected by the reflector,

a lamp cover allowing a passage of light of the light source reflected by the reflector,

a lamp cap covering part or all of the light source, and

a light guide comprised of a thermoplastic resin containing an alicyclic structure having an incident face to which is introduced at least one type of light selected from the light source and light from the light source reflected by the reflector and an emission face emitting the incident light introduced from the incident face to the outside.

31. (New) The lighting equipment as set forth in claim 1, characterized in that said metal film is comprised of a reflecting layer with a reflectance of at least 70%.

32. (New) The reflector for a lighting equipment as set forth in claim 9, characterized in that said metal film is comprised of a reflecting layer with a reflectance of at least 70%.